

What does the National Institute on Drug Abuse (NIDA) do?

NIDA is part of the National Institutes of Health. We are the largest supporter of the world's research on drug abuse and addiction. Our goal is to better understand who uses drugs and why, and how drugs work in the brain and body, so we can develop and test new ways to prevent and treat drug abuse and addiction.

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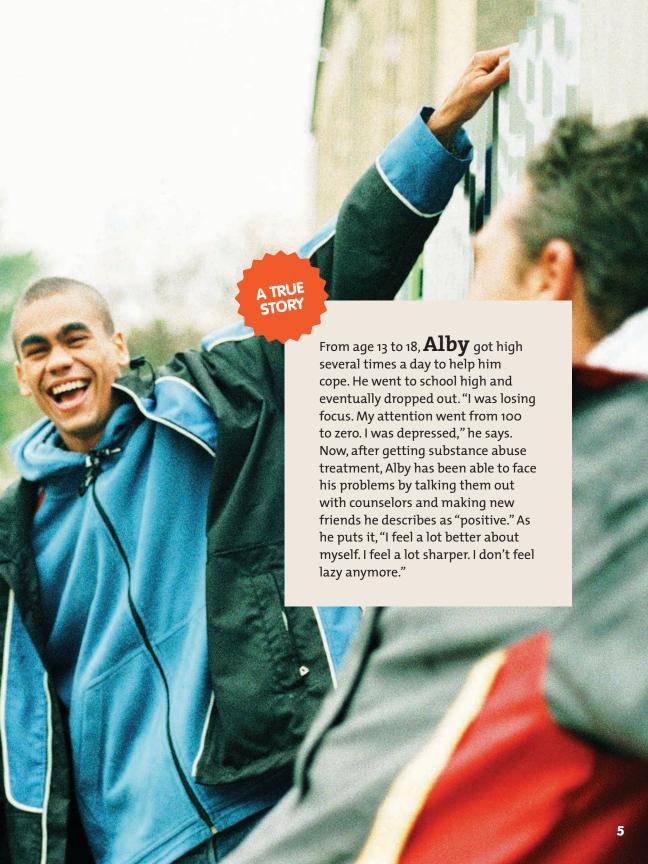
Can marijuana be

ADDICTIVE?

Yes. The chances of becoming addicted to marijuana or any drug are different for each person. For marijuana, around 1 in 11 people who use it become addicted. Could you be that one?

Anthony J, Warner LA, Kessler RC.
Comparative epidemiology of
dependence on tobacco, alcohol,
controlled substances, and inhalants:
basic findings from the National
Comorbidity Survey. Exp Clin
Psychopharmacol. 1994;2:244–268.

Lopez-Quintero C, Pérez de los Cobos J, Hasin DS, et al. Probability and predictors of transition from first use to dependence on nicotine, alcohol, cannabis, and cocaine: results of the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC). *Drug Alcohol Depend*. 2011;115(1-2):120-130.





IF YOU SMOKE MARIJUANA A LOT IN YOUR TEENS, YOU COULD LOSE IQ POINTS (WHICH MEASURE INTELLIGENCE) THAT YOU MIGHT NEVER GET BACK.

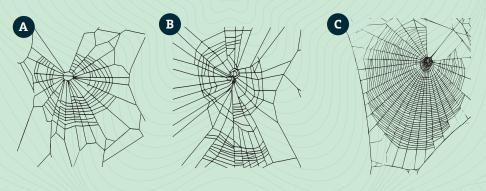


Meier MH, Caspi A, Ambler A, et al. Persistent cannabis users show neuropsychological decline from childhood to midlife. *Proc Natl Acad Sci USA*. 2012;109:E2657–2664.

Why isn't smoked marijuana a safe medicine?

- A. You can't be sure what chemicals are in it.
- B. Smoking anything can hurt your lungs.
- C. It affects your thinking skills.
- D. It alters your motor skills, making you an unsafe driver.
- E. All of the above

Which of these webs is made by a spider that is NOT on drugs?



"Spice" (also known as K2):

- A. Is sometimes misleadingly called "fake weed"
- B. Has put people in emergency rooms with vomiting, confusion, and hallucinations
- C. Is used mainly by smoking
- D. All of the above



Peer Pressure

do people

when they know it's so bad for them?

Product Placement

DID YOU KNOW? Research says that teens who see a lot of smoking in movies are more likely to start smoking themselves. Sometimes characters smoke to look edgy and rebellious; but sometimes it's just

Maybe they smoke because they can't stop. People start smoking for different reasons, but most keep doing it because of one reason—they are addicted to nicotine.

about "product placement" — the tobacco industry trying to get into your head and your pockets.

U.S. Department of Health and Human Services. Preventing Tobacco Use Among Youth and Young Adults: A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health; 2012.



MOST PEOPLE WHO SMOKE STARTED BEFORE AGE 18.

KNOMS DID AOA Almost one in five 12th graders used a hookah in the past year? A hookah is a water pipe used to burn tobacco leaves. A lot of people think it's less harmful than smoking cigarettes, but many of the health risks are the same.

Johnston L, O'Malley P, Miech R, Bachman J, Schulenberg J. Monitoring the Future National Survey Results on Drug Use: 1975-2015: Overview: Key Findings on Adolescent Drug Use. Ann Arbor, MI: Institute for Social Research, The University of Michigan; 2015.

U.S. Department of Health and Human Services. *Preventing Tobacco Use Among Youth and Young Adults: A Report of the Surgeon General.* Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health; 2012.

Smokeless tobacco does not cause cancer.

- A. True, it is the tar in cigarettes that causes lung cancer, emphysema, and bronchial disorders.
- B. False, smokeless tobacco (such as chewing tobacco and snuff) increases the risk of cancer, especially oral cancers.

How many Americans die from diseases associated with tobacco use each year?

- A. About 1,500
- B. About 13,200
- C. About 50,500
- D. About 480,000



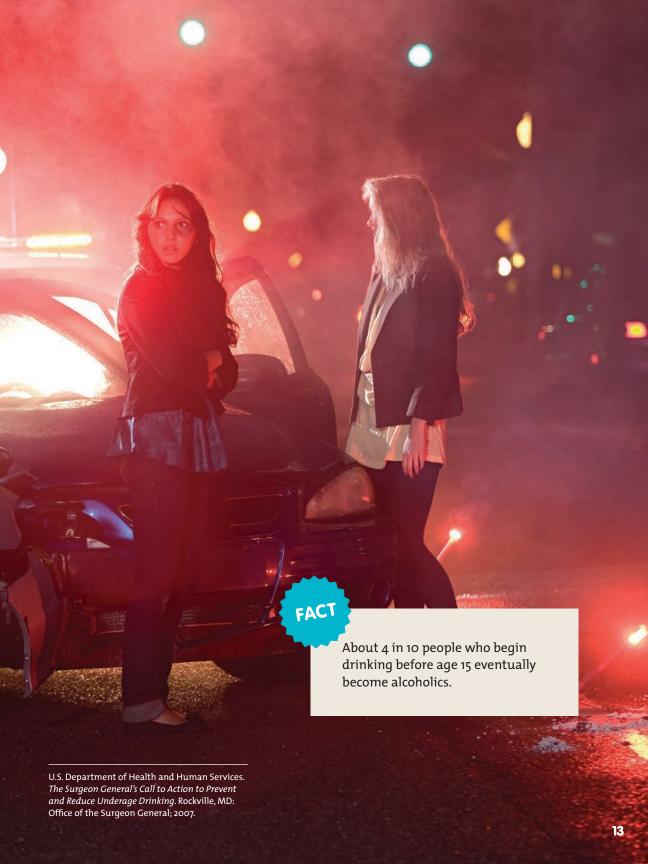
E-Cigarettes

E-cigarettes contain nicotine—the addictive drug in tobacco cigarettes—and other chemicals that may be harmful.

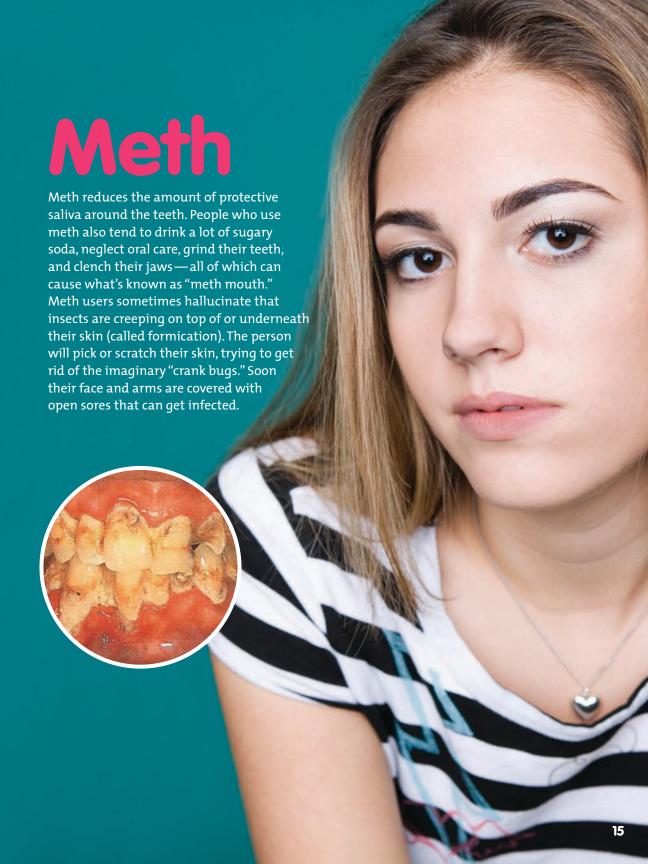
More teens use e-cigarettes than tobacco cigarettes. Scientists have just started to research the health effects of e-cigarettes, but we do know one thing: users will inhale the same nicotine they get from a regular cigarette.

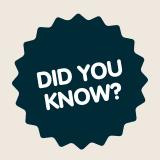
U.S. Department of Health and Human Services. The Health Consequences of Smoking—50 Years of Progress. A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health; 2014.











You are getting bombarded with messages about drugs in songs and movies. A study of popular music found that about



songs said something about drug, alcohol, or tobacco use.

3 in 4

rap songs said something about drug, alcohol, or tobacco use.

And of the top 100 movies over a 9-year period, more than

7 in 10

movies showed characters smoking.

1 in 3

movies showed people getting drunk.

Get the facts, and make your own decisions.

Primack BA, Dalton MA, Carroll MV, Agarwal AA, Fine MJ. Content analysis of tobacco, alcohol, and other drugs in popular music. Arch Pediatr Adolesc Med. 2008;162(2):169–174.

Tickle JJ, Beach ML, Dalton ML. Tobacco, alcohol, and other risk behaviors in film: how well do MPAA ratings distinguish content? *J Health Commun*. 2009;14(8):756–767.

Tobacco

Wrinkles, bad breath, yellow teeth, wheezing, stinky clothes?... Let me at those cigarettes!

ADDICTION

SKIN DAMAGE

CATARACTS

WRINKLES

MOUTH CANCERS

THROAT CANCER

HEART DISEASE

LUNG DISEASE





What are Prescription Opioids?

Prescription opioids, such as Vicodin® and OxyContin®, are medications that relieve pain. When taken as prescribed, they can be very effective in helping people with severe pain, such as a bad injury or pain after surgery. But they come from the same class of drugs as heroin and can be dangerous if used to get high.



FACT

More people die from prescription opioid overdoses than from heroin and cocaine combined.

A lot of you have asked: how can

PRESCRIPTION(RX) DRUGS

be harmful when they're prescribed by doctors? Prescription drugs aren't bad—they help

Prescription drugs aren't bad—they help a lot of people. It really depends on the who, how, why, and what of it.

- Who were they prescribed for (you or someone else)?
- How are you taking them (as prescribed or not)?
- Why (to get well or to get high)?
- What else are you taking (mixing with alcohol or other drugs can be dangerous)?

Some teens abuse stimulants thinking it will improve their grades, but research tells us it may do just the opposite!



It's safe to use prescription drugs when:

- A. You've checked out WebMD and know what you are doing
- B. You've taken them before for another problem
- C. They are prescribed for you by a doctor for a current problem
- D. Your mom gave them to you from her prescription
- E. All of the above



Mixing pills with other drugs or with alcohol really increases your risk of death from accidental overdose.

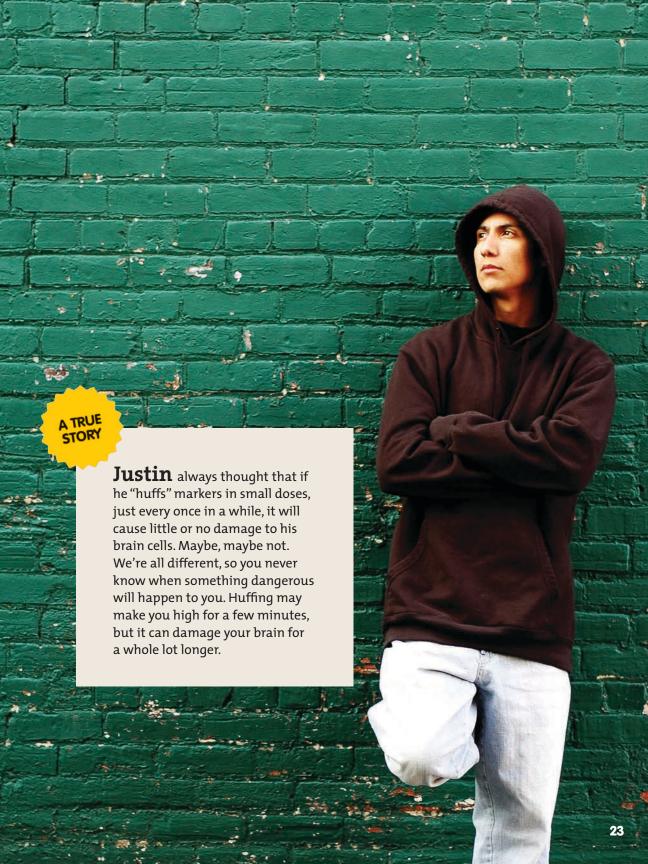
Abuse of prescription ADHD medications like Adderall® and Ritalin® can cause serious health problems, including panic attacks, seizures, and heart attacks.

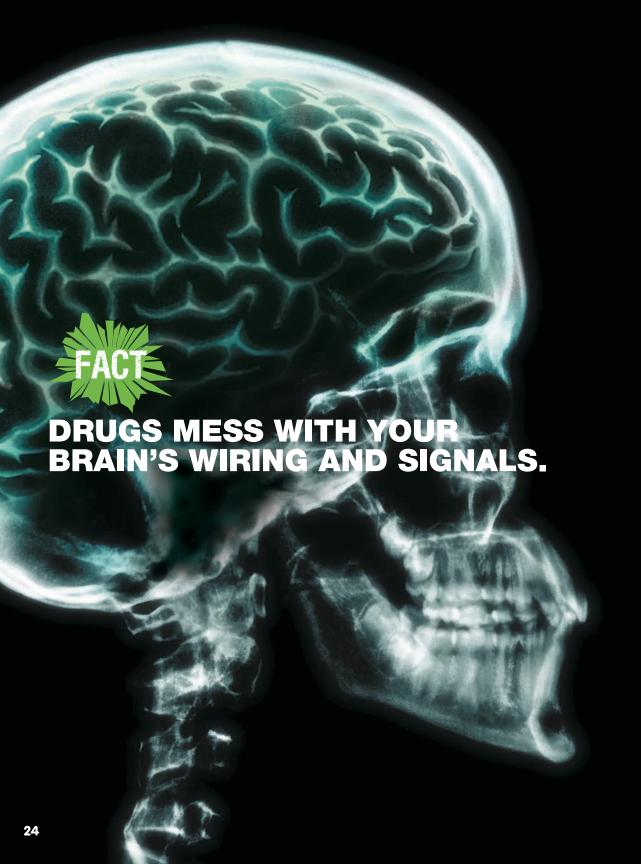
You know they make you

but what do drugs do to your brain?

Different drugs do different things. But they *all* affect the brain—that's why drugs make you feel high, low, speeded up, or slowed down, or see things that aren't there.

DID YOU KNOW? Repeated drug use can reset the brain's pleasure meter, so that without the drug, you feel hopeless and sad. Eventually, everyday fun stuff like spending time with friends or playing with your dog doesn't make you happy anymore.





Most drugs of abuse target the brain's reward system by flooding it with:

- A. Serotonin
- B. Blood
- C. Dopamine
- D. Acetylcholine

True or False: All it takes to stop using drugs is willpower.

True

False

Which of the following affects someone's risk of getting addicted?

- A. Genes (traits in your body passed from parent to child)
- B. Life at home
- C. Friends' drug use
- D. All of the above

GET HELP?

Does treatment really work? Why do people come and go so much?

It takes time to recover from addiction—not only for the brain to re-adjust, but to make lifestyle changes to avoid drugs. Think how hard it is for people trying to lose weight—they try different diets, exercise for a while, lose a few pounds only to gain them back...until they can make lasting changes to keep the weight off. Same with quitting drugs—it may take several rounds of treatment before it sticks.





A person who is addicted to drugs...

- A. Is beyond reach
- B. Can be helped with treatment
- C. Needs a brain transplant
- D. Can easily quit if they want to

What do

Think?

We know you have a lot of questions about drugs. We do too, and we'd love to hear from you! So go to our blog at teens.drugabuse.gov/blog and let us know what you think—and thanks for sharing!

We also have National Drug & Alcohol Facts Week^{5M} (NDAFW) each year that helps teens *SHATTER THE MYTHS*^{7M} about drugs and drug abuse. NDAFW includes local school and community events and DRUGS & ALCOHOL CHAT DAY, a live, online chat held between high school students and NIDA scientists. Go to

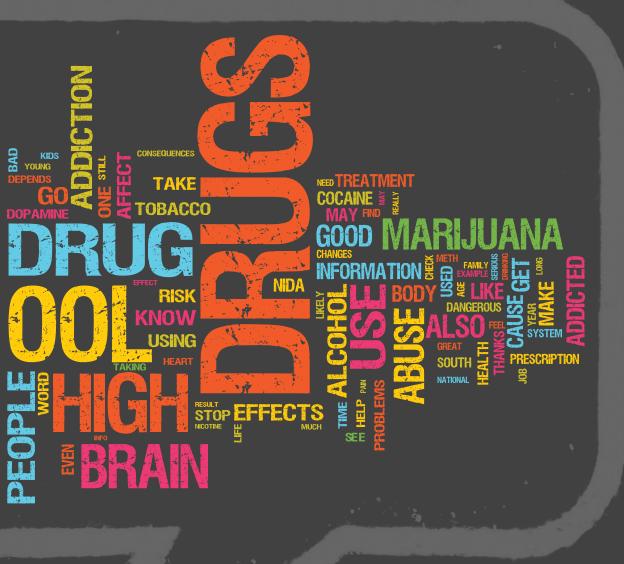


teens.drugabuse.gov/national-drug-facts-week to learn about events in your area. If you have a question about drugs that you haven't seen answered anywhere else, you might be able to find it in the chat day transcript (you can find the link on the NDAFW website above).

Here are some popular questions we've answered:

- How many young people are addicted to drugs?
- What's the most commonly used drug by teens?
- Can drugs make you mentally ill?
- What drug is the most addictive?
- Is smoking marijuana more harmful than smoking cigarettes?







drugabuse.gov teens.drugabuse.gov





